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January 14, 2005

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUBJECT: Applicant: Dubé *et al.*  
Serial No.: 10/601,606  
Filed: June 23, 2003  
For: INTEGRATED ELECTROFLUIDIC SYSTEM AND METHOD  
Docket No.: DR-352J

Dear Sir:

Pursuant to 37 CFR 1.56, enclosed are an Information Disclosure Citation in an Application, Form PTO-A820, and copies of 46 references.

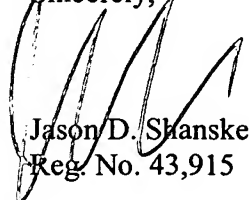
This Information Disclosure Citation is timely filed and should be considered as it is filed before the mailing date of the first Office Action on the merits of the subject application pursuant to 37 CFR §1.97(b)(3).

If for any reason this Information Disclosure Citation is incomplete, or if at any time it appears that a Telephone Conference with counsel would help advance prosecution, please telephone the undersigned or his associates, collect in Waltham, Massachusetts at (781) 890-5678.

If any payment during prosecution is found to be incorrect, please charge any deficiency or credit any overpayment to by Deposit Account No. 09-0002. A copy of this letter is enclosed for use by the Finance Branch in the event that it is necessary to make any charge or credit to my deposit account.

Kindly acknowledge receipt of the foregoing by returning the enclosed self-addressed postcard.

Sincerely,

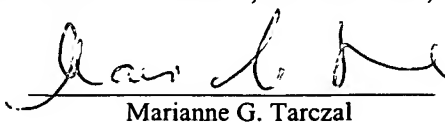


Jason D. Shanske  
Reg. No. 43,915

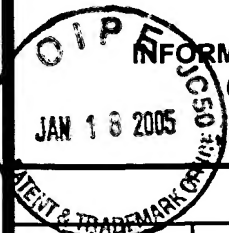
JDS/mgt  
Enclosures

### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on January 14, 2005.



Marianne G. Tarczal



## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.

DR-352J

SERIAL NO.

10/601,606

Dubé *et al.*

FILING

June 23, 2003

GROUP

3641

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,337,212	Jan-8-02	Nagle <i>et al.</i>	436	174	
	6,322,683	Nov-27-01	Wolk <i>et al.</i>	204	600	
	6,321,791	Nov-27-01	Chow	137	833	
	6,293,012	Sep-25-01	Moles	29	890.124	
	6,251,343	Jun-26-01	Dubrow <i>et al.</i>	422	102	
	6,200,536	Mar-13-02	Tonkovich <i>et al.</i>	422	177	
	6,182,733	Feb-6-01	McReynolds	156	497	
	6,156,438	Dec-5-00	Gumm <i>et al.</i>	428	458	
	6,136,212	Oct-24-00	Mastrangelo <i>et al.</i>	216	49	
	6,123,798	Sep-26-00	Gandhi <i>et al.</i>	156	292	
	6,102,068	Aug-15-00	Higdon <i>et al.</i>	137	341	

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 98/07069	19-Feb-98	WIPO			✓	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	van den Berg <i>et al.</i> : "Micro Total Analysis Systems: Microfluidic Aspects, Integration Concept and Applications" Topics in Current Chemistry, Vol. 194, Springer Verlag Berlin Heidelberg 1998, pp. 22-49
	Mensingher, <i>et al.</i> : "Microreactor with Integrated Static Mixer and Analysis System", 1995 Kluwer Academic Publishers, Printed in the Netherlands, pp. 237-243
	van der Schoot <i>et al.</i> : "Microsystems for Analysis in Flowing Solutions" © 1995 Kluwer Academic Publishers, Printed in the Netherlands, pp. 181-190
	Baltes <i>et al.</i> : "CMOS Integrated Microsystems and Nanosystems", Part of the SPIE Conference on Smart Electronics and MEMS, Newport Beach, California, March 1999, SPIE Vol. 3673, 0277-786X/99, pp. 2-10

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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,086,740	Jul-11-00	Kennedy	204	601	
	6,082,185	Jul-4-00	Saaski	73	64.56	
	6,073,482	Jun-13-00	Moles	73	53.01	
	5,932,799	Aug-3-99	Moles	73	53.01	
	5,788,468	Aug-4-98	Dewa et al.	417	415	
	5,718,567	Feb-17-98	Rapp et al.	417	395	
	5,376,252	Dec-27-94	Ekström et al.	204	299	
	4,489,863	Dec-25-84	Horchos et al.	222	504	
	3,811,474	May-21-74	Bauer et al.	137	833	

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						YES	NO

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

			Terry et al.: "A Gas Chromatographic Air Analyzer Fabricated on a Silicon Wafer", IEEE Transactions on Electron Devices, Vol. ED-26, No. 12, December 1979, pp 1880-1887
			Martin et al.: "Laminated plastic microfluidic components for biological and chemical systems", 1999 American Vacuum Society, J. Vac. Sci. Technol. A 17(4), Jul/Aug 1999, pp. 2264-2269
			Webster et al.: "Monolithic Capillary Electrophoresis Device with Integrated Fluorescence Detector", ©2001 American Chemical Society, Published on Web 02/23/2001, Anal. Chem. 2001, 73, pp 1622-1626
			Roulet et al.: "Performance of an Integrated Microoptical System for Fluorescence Detection in Microfluidic Systems" Institute of Microtechnology, University of Neuchâtel, ©2002 Anal. Chem. 2002, 74, pp 3400-3407

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**3641****U.S. PATENT DOCUMENTS**

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						YES	NO

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		Love <i>et al.</i> : "Fabrication of Three-Dimensional Microfluidic Systems by Soft Lithography", MRS Bulletin/July 2001, pp. 523-529
		Rogers, John A.: "Rubber Stamping for Plastic Electronics and Fiber Optics", MRS Bulletin/July 2001, pp. 530-534
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		Sirringhaus <i>et al.</i> : "High-Resolution Ink-Jet Printing of All-Polymer Transistor Circuits", MRS Bulletin/July 2001, pp. 539-543

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

## **OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

			Meng et al.: "A Check-Valved Silicone Diaphragm Pump" Caltech Micromachining Lab, 136-93, Caltech, Pasadena, CA, 6 pages
			Dubé et al.: "A Si-Based FPW Sensor Array System with Polymer Microfluidics Integrated on a PCB", The Charles Stark Draper Laboratory, Cambridge, MA, 6 pages
			Michel et al.: "Printing meets lithography: Soft approaches to high-resolution patterning", IBM J. Res. & Dev., Vol. 45 No. 5, September 2001, pp. 697-719
			Quake et al.: "From Micro- to Nanofabrication with Soft Materials", SCIENCE (www.sciencemag.org) Vol. 290, 24 November 2000, pp. 1536-1540

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<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)	ATTY DOCKET NO.	APPLICATION NO.
	DR-352.J	10/601,606
	APPLICANT(S)	
	Dubé <i>et al.</i>	
	FILING DATE	GROUP ART UNIT
	June 23, 2003	3641

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**U.S. PATENT APPLICATION PUBLICATIONS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

		Jager <i>et al.</i> : "Microfabricating Conjugated Polymer Actuators" SCIENCE (www.sciencemag.org), Vol. 290, 24 November 2000, pp. 1540-1545 Kim <i>et al.</i> : "Fabrication and Test of an Electromagnetic Micro Actuator with a Planar Coil on a Parylene Diaphragm", MEMS-Vol. 2, Micro-Electro-Mechanical Systems (MEMS) - 2000, pp. 281-286
		Bianchi <i>et al.</i> : "Electroosmotic Flow in Composite Microchannels and Implications in Microcapillary Electrophoresis Systems" Analytical Chemistry, Vol 73, No. 4, February 15, 2001, pp. 829-836 Z. Cui, Rutherford Appleton Laboratory, UK: "A Knowledge Base for Microfluidic Devices", www.cmf.rl.ac.uk/CCMicro/info_microfluidics, 15 pages

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	<b>Dubé et al.</b>	
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
			Morris et al.: "Optimization of a circular piezoelectric bimorph for a micropump driver" Mechanical Engineering Department, University of Washington, Seattle, WA, February 2000, 7 pages

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